

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058229 A2

- (51) International Patent Classification⁷: **A61K**
- (21) International Application Number:
PCT/US2004/033230
- (22) International Filing Date: 8 October 2004 (08.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/510,060 9 October 2003 (09.10.2003) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/510,060 (CIP)
Filed on 9 October 2003 (09.10.2003)
- (71) Applicant (for all designated States except US): **OMNIVIRAL THERAPEUTICS LLC** [US/US]; 905 Centennial Road, c/o Heritage Homes, East Highway 35, Wayne, NE 68787 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LEVINE, Howard, L.** [US/US]; 24 Wright Farm Road, Concord, MA 01742 (US). **KERNS, William** [US/US]; 112 Bolton Road, Harvard, MA 01451 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTIVIRAL PROTEINS WITH IMPROVED PROPERTIES AND METHODS THEREFOR

Gene and AA sequence

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      M L G K F S Q T C Y N S A I Q G S V L T S T C E R T N G G
1 AGGAGGACAG CTATGCTGGG CAACTTCAGC CAGACCTGCT ACAACAGCGC GATTCAGGGC AGCGTTCTGA CCAGCACCTG CGAACGTACC AATGGTGGCT
  TCCTCCTGTC GATACGACCC GTTCAAGTCG GTCTGGACGA TGTGTGCGCG CTAAGTCCCG TCGCAAGACT GGTGCTGGAC GCTTGCAATG TTACCACCGA

      Y N T S S I D L N S V I E N V D G S L K W Q P S N F I E T C R N T Q
101 ACAACACTTC TAGCATTGAT CTGAACAGCG TGATTGAGAA TGTGGATGGC TCTCTGAAAT GGCAGCCGAG CAACTTCATT GAAACCTGTC GCAACACCCA
  TGTGTGAAG ATCGTAACCTA GACTGTGCGC ACTAACTCTT ACACCTACCG AGAGACTTTA CCGTCGGCTC GTTGAAGTAA CTTTGACAG CGTTGTGGST

      L A G S S E L A A E C K T R A Q Q F V S T K I N L D D H I A N I D
201 GCTGGCGGGC AGCTCTGAAC TGGCGGCAGA ATGCAAGACT CGCGCGCAGC AGTTTGTGAG CACCAAGATC AACCTGGACG ATCACATCGC GAACATTGAT
  CGACCGCCCG TCGAGACTTG ACCGCGCTCT TACGTTCTGA GCGCGCGTCE TCBAACACTC GTGTTCTAG TTGGACCTGC TAGTGTAGCG CTTGTAACTA

      G T L K Y E #
301 GGCACCCCTGA AGTATGAATA A
  CCGTGGGACT TCATACTTAT T
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(57) Abstract: The invention provides novel recombinant proteins and compositions having non-naturally occurring N-terminal amino acids such as methionine, and methods of making and using the protein for greater anti-viral activity and less toxicity than naturally occurring proteins.

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